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A method for cutting compounded rubber for reflected light measurement of the disbursement of fillers therein is disclosed. The method includes subjecting a sample of compounded rubber to a dynamic pulling force, and cutting the sample while it is subjected to the dynamic pulling force. The method may further include the step of pressing the sample to remove entrapped air from the sample, and, preferably, the method includes cooling the sample during such a pressing step. Cutting the sample while it is subjected to a dynamic pulling force will reduce, and, preferably, eliminate, the presence of smears on a cut surface of the sample. By reducing the amount of entrapped air within a sample and, further, reducing the occurrence of smearing during cutting of the sample, a subsequent reflected light measurement of the dispersion of fillers within the compounded rubber sample is more accurate.